

540,788

(12) INTERNATIONAL PUBLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
12 August 2004 (12.08.2004)

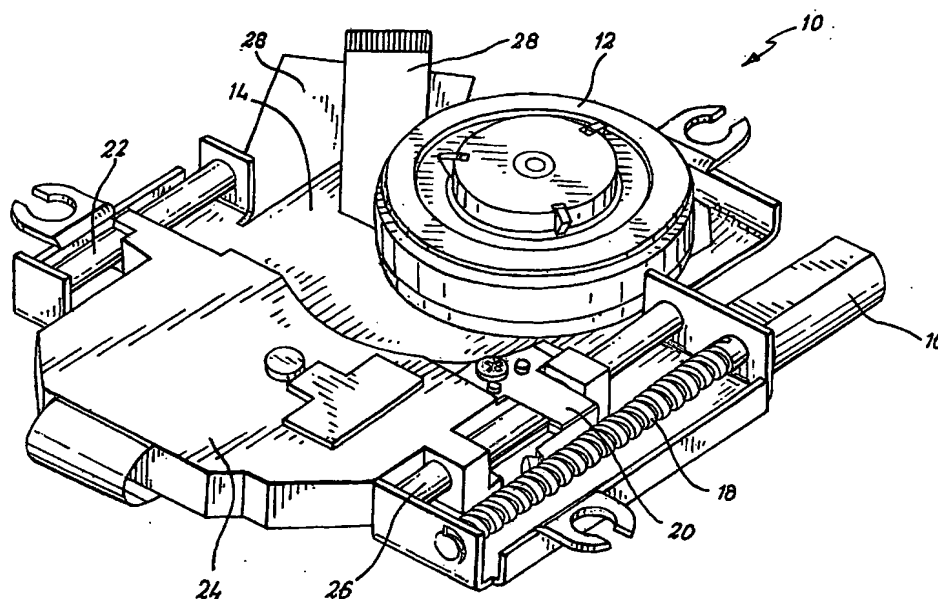
PCT

(10) International Publication Number
WO 2004/068479 A1

- (51) International Patent Classification⁷: **G11B 7/085**, 17/00, 7/09
- (21) International Application Number: **PCT/GB2003/005722**
- (22) International Filing Date: **24 December 2003 (24.12.2003)**
- (25) Filing Language: **English**
- (26) Publication Language: **English**
- (30) Priority Data: **0300472.8** **9 January 2003 (09.01.2003)** **GB**
- (71) Applicant (for all designated States except US): **INFINITE DATA STORAGE LIMITED [GB/GB]; 1 Pitreavie Court, South Pitreavie Business Park, Dunfermline KY11 8UG (GB).**
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **COMBE, Tony [GB/GB]; 26 Broomieknowe, Dunfermline KY9 1DG (GB). SHEPHERD, David [GB/GB]; Infinite Data Storage Limited, 1 Pitreavie Court, South Pitreavie Business Park, Dunfermline KY11 8UG (GB).**
- (74) Agent: **KENNEDYS PATENT AGENCY LIMITED; Floor 5, Queens House, 29 St. Vincent Place, Glasgow G1 2DT (GB).**
- (81) Designated States (national): **AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK (utility model), SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.**
- (84) Designated States (regional): **ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).**
- Published:**
— with international search report

[Continued on next page]

(54) Title: **SINGLE PIECE OPTICAL MECHANICAL ASSEMBLY FOR OPTICAL DATA STORAGE ENGINES**



(57) Abstract: The invention provides an Optical Mechanical Assembly (OMA) for use in a portable optical data storage device, having a single piece chassis with mounting means for mounting components of the portable optical storage device. The chassis mounting means can mount the windings of the disc spindle motor, the control circuit of the disc spindle motor and the motor shaft of the disc spindle motor. The invention provides improvements to the drive design, which can reduce cost, improve tolerancing and build time.

WO 2004/068479 A1

W 2004/068479 A1



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.